

Appl. No. 09/525,615

Doc. Ref.: AR53

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 58-133004

(43)Date of publication of application : 08.08.1983

(51)Int.Cl.

H03D 1/00

(21)Application number : 57-016027

(71)Applicant : MATSUSHITA ELECTRIC IND CO  
LTD

(22)Date of filing : 03.02.1982

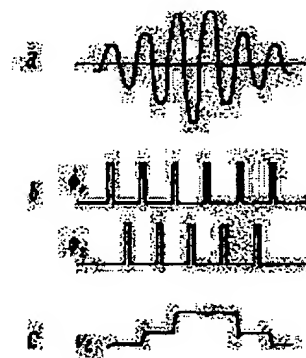
(72)Inventor : SASAKI MIKIO

## (54) AMPLITUDE DETECTOR

### (57)Abstract:

PURPOSE: To obtain a detector which can work regardless of the DC level of a signal which received an amplitude modulation and is also converted easily into an IC, by using no resistance but using a capacitor of small capacity and a switch.

CONSTITUTION: A signal input terminal 1 is connected to an end of a switch 2, and the other end of the switch 2 is connected to an earth via a capacitor 3 as well as to an end of a switch 4. The other end of the switch 4 is connected to an output terminal 5. Then an amplitude modulating signal shown in a figure (a) is applied as an input V<sub>1</sub>, and at the same time double phase clocks  $\phi_1$  and  $\phi_2$  shown in a figure (b) are applied as the signals to switch the switches 2 and 4. Thus the terminal voltage VC of the capacitor 3 shows the envelope curve of an amplitude modulating signal, and a wave detecting signal is extracted through the switch 4. It is also possible to form an amplitude wave detecting circuit without using any resistance but using a capacitor of small capacity and switches. As a result, the capacitor can be stored into an IC. Thus an IC can be formed easily.



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the  
examiner's decision of rejection or application  
converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of  
rejection]

[Date of requesting appeal against examiner's decision]

of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office